

MERRITT EVOLVE

Designed to adapt and excel in virtually any equipment application, the Merritt Evolve model joystick offers unprecedented levels of customization. Available with a J1939, CANOpen, or hall-effect output, the Evolve can be configured to a broad range of machinery and operations.



SPECIFICATIONS

GENERAL DATA

# of Axis	Single, Dual or Three* *Third axis is achieved via a twist handle function or thumbwheel.
Output Options	CANOpen & J1939, Hall-Effect, Redundant*, Redundant Reversed* *Available in late 2023
Joystick Action	Spring Return
Handle Travel	+/- 20 degrees each axis
Gate	Open or Cross
Handle Compatibility	XG1, FG-4, RH, BH, RHS, G58, MG27
Life	20 million plus cycles
Est. Shipping Weight	3lbs
Est. Shipping Dimensions	13 in. x 10 in. x 8 in.

MOUNTING DATA

Mounting Style	Drop-in
Mounting Footprint	3.5 in." x 3.5 in" Drop-in mount Reference product literature for additional mounting specifications

ENVIRONMENTAL DATA

IP Rating	IP54* *IP Rating dependent on the handle device chosen.
Operating Temperature	-40 to +140 F [-40 to +60 C]
Storage Temperature	-40 to +176 F [-40 to +80 C]

ELECTRICAL DATA

Contact Specifications

Single 5V (Standard)
Supply Voltage: 4.5-5.5 VDC
Output Voltage: Ratiometric 0.5 - 2.5 - 4.5 V \pm 0.15 V @ 5.0 V Supply
Output Current: 10mA
Power Consumption: 7 mA typical (5 - 10 mA max)
7-30 VDC

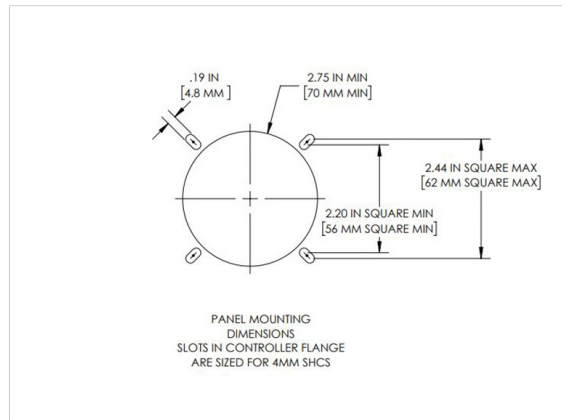
Hall-Effect Specifications **Supply Voltage:** 7-30 VDC
Output Voltage: 0.5 - 2.5 - 4.5 V \pm 0.15 V
EMC Emissions:
Complies with EN61000-6-4:2007; Class A Group 1,80- 1000MHz
EMC Immunity:
Complies with EN61000-6-2:2005 expanded to include: RFI Immunity of 100V/M @80 - 1000 MHz
ESDImmunity of 15 Kv air, 8 Kv contact

Can Specifications	<i>CANOpen</i> Standard 2 analog joystick inputs (X/Y) Up to 14 digital inputs Up to 4 digital outputs* Up to 8 additional analog inputs* * Replacing digital inputs <i>J1939</i> Standard 2 analog joystick inputs (X/Y) Up to 14 digital inputs Up to 4 digital outputs* Up to 8 additional analog inputs* * Replacing digital inputs
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Additional Specifications Reference product literature for additional specifications

Technical Drawings

Mounting



Merritt Evolve Drop-in mounting